

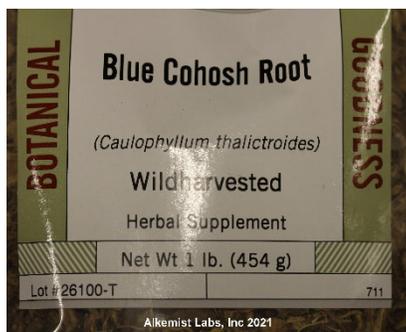
Certificate Issued To:
Mountain Rose Herbs
12661 Hoover St
Garden Grove, CA 92841
USA



Work performed at:
Alkemist Labs
12661 Hoover Street
Garden Grove, CA 92841
714-754-HERB (4372)
sales@alkemist.com

Certificate of Analysis: Blue Cohosh Root (26100)
Microscopy with Digital Photo-Documentation

1



2



3



Company Name: Mountain Rose Herbs
Title: Blue Cohosh Root
Plant Part: Root
Sample Received: 4/28/2021
Sample Description: Clear Reclosable Plastic Bag
Form of Botanical: cut and sifted
Appearance: (1) Brown cut and sifted root pieces
Lot : 26100
Sample : 21118BPV_1
Latin Name: *Caulophyllum thalictroides* (L.) Michx. [Berberidaceae]
Reference Sample : PA10699AHP *Caulophyllum thalictroides* (L.) Michx. [Berberidaceae] authenticated by macroscopic, microscopic &/or TLC studies according to the reference sources cited below; held at Alkemist Labs, Garden Grove, CA.
Analyst: E. Sudberg & I. Solorzano
Magnification: (2) 400X
Chemical Reagents: (2) acidified chloral hydrate glycerol solution
Sample Findings: (2) abundant starch granules
Magnification: (3) 200X
Chemical Reagents: (3) acidified chloral hydrate glycerol solution
Sample Findings: (3) sclerenchymatous fibers
Reference Source: The Microanalysis of Powdered Vegetable Drugs, Schneider, A., 1921; Scientific & Applied Pharmacognosy, Kraemer, H., 1920
MIC-SOP-54-04, MIC-SOP-54-05, MIC-SOP-54-06, MIC-SOP-510-07

Comments & Conclusions: This sample has characteristics of *Caulophyllum thalictroides* (L.) Michx. [Berberidaceae] root based on comparison with an authenticated reference sample and the characteristics described in the references cited above. The characteristic cellular structures identified in this sample are the abundant starch granules seen in micrograph (2) above. In micrograph (3) we see the sclerenchymatous fibers. **This test sample, Blue Cohosh Root (26100), has characteristics of *Caulophyllum thalictroides* (L.) Michx. [Berberidaceae] root.**

NOTE: The presence of soluble excipients and other plant species material was not detected in this test sample.

Analyzed by: Iris Solorzano
Examined, Reviewed & Authorized by: Élan M Sudberg, CEO

Report Date: 5/4/2021



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